LISTING OF THE CLAIMS

This listing of the claims replaces all prior claim versions and listings in the application:

1-13. (Canceled)

14. (Currently Amended) A lighting apparatus using microwave energy, comprising:

a casing;

a reflector fixed to an outer surface of the casing;

a magnetron disposed inside the casing, for generating microwave energy;

a waveguide for guiding microwave energy;

a resonator disposed inside the reflector and providing a resonant region in which the microwave energy is resonated;

a bulb having a stem disposed inside the resonator, and filled with a material which emits light, when excited by the microwave energy;

a rear mirror <u>formed in a hemispherical shape having a curved surface</u> integrally fixed to the bulb stem and integrally rotatable together with the bulb when the bulb is rotated, for forwardly reflecting light rearwardly emitted from the bulb; and

a fixed mirror <u>formed in a hemispherical shape having a curved surface</u> fixed to the casing at a rear side of the bulb and having a hole in which a bulb stem rearwardly extended from the bulb is rotatably insertable for forwardly reflecting light emitted to the rear of the bulb,

wherein a diameter of the hole of the fixed mirror is formed to be smaller than a width of the rear mirror, and the center of the bulb is positioned at a focal point of both the curved surface of the rear mirror and the curved surface of the fixed mirror.

15-16. (Canceled)

- 17. (Previously Presented) The apparatus of claim 14, wherein the rear mirror is made of a quartz material.
- 18. (Previously Presented) The apparatus of claim 14, wherein the fixed mirror is made of a ceramic material.

19. (Canceled)

20. (Previously Presented) The apparatus of claim 14, wherein the fixed mirror is made of an Al₂O₃, Si₃N₄ or AlN material.